

# OIL ANALYSIS REPORT

# VOLVO PENTA

## LARABIE LARABIE VOLVO PENTA 70112010813 - STARBOARD DIESEL ENGINE

Sample No: VPA036327

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

### SAMPLE INFORMATION

Sample Number	VPA036327	---	---	---
Sample Date	01 Nov 2023	---	---	---
Machine Hours	400	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ATTENTION	---	---	---

### OIL CONDITION

Visc @ 100°C	cSt	▲ 11.8	---	---	---
Base Number (BN)	mg KOH/g	■ 9.1	---	---	---
Oxidation (PA)	%	■ 59	---	---	---

### CONTAMINATION

Soot %	%	■ 0.6	---	---	---
Nitration (PA)	%	■ 58	---	---	---
Sulfation (PA)	%	■ 56	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	▲ 3.7	---	---	---
Silicon	ppm	■ 18	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ <1	---	---	---

### WEAR METALS

Iron	ppm	■ 13	---	---	---
Copper	ppm	■ 44	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 60	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	■ 0	---	---	---

### ADDITIVES

Calcium	ppm	■ 1136	---	---	---
Magnesium	ppm	■ 963	---	---	---
Zinc	ppm	■ 1356	---	---	---
Phosphorus	ppm	■ 1081	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 4	---	---	---

#### W J Clark Inc

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F:

#### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VP151520  
Unique No: 10727189  
Signed: Jonathan Hester  
Report Date: 08 Nov 2023

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## GRAPHS

